MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2019/2020

DCS5111 – COMPUTER CONCEPTS AND APPLICATIONS

(DIT)

16 OCTOBER 2019
2.30 PM – 4.30 PM
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **5 pages**.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

SECTION A: 20 MULTIPLE CHOICE QUESTIONS (20 MARKS)

*Instruction: Please mark all your answers in the **OMR sheet** provided.*

1. Which of the four major functions of a computer is responsible for manipulating, calculating and organizing data into information?
   A. Input
   B. Output
   C. Process
   D. Storage

2. _____ enable your computer to connect with other computers and provide high-speed Internet connections.
   A. Video cards
   B. Sound cards
   C. Motherboards
   D. Network interface cards

3. Which of the following statements is **FALSE** about precaution when using social networking sites?
   A. Know your friends
   B. Use caution when posting an images
   C. Broadcast your personal information to the general public
   D. Do not post information that often used as security question to verify identity

4. Which of the following website is used to search other website by typing a keyword?
   A. Social Networks
   B. Mozilla Firefox
   C. Search engine
   D. Router

5. ABC Supermarket has a new inventory system; what type of software is managing it?
   A. Communication software
   B. System software
   C. Accounting software
   D. Database software

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6. Which of the following applications is normally used to create a letter?
   A. Word processor
   B. Database
   C. Spreadsheet
   D. Desktop publisher

7. What is the best way to ensure that important computer data is not lost?
   A. Always use a password to protect file access.
   B. Make regular backup files on the internal hard disk
   C. Never delete any files just in case you remove the wrong one by accident
   D. Make regular backup copies onto suitable storage media and store them in a safe place.

8. This piece of software is used to control hardware devices and allow an Operating System to make use of the hardware.
   A. Hardware peripheral device
   B. Device Manager
   C. Device system
   D. Device driver

9. Which statement is **FALSE** about CPU?
   A. Located on motherboard
   B. Processes instructions
   C. Performs calculations
   D. store the data

10. Which statement is **TRUE** about ROM?
    A. Use together with broadband modem
    B. Start-up instructions stored here
    C. Short term memory storage
    D. Volatile storage

11. Which of the following is **NOT** a type of Computer Network?
    A. Local Area Network (LAN)
    B. Remote Area Network (RAN)
    C. Personal Area Network (PAN)
    D. Metropolitan Area Network (MAN)

12. Which of the following is not **TRUE** about types of UTP cable?
    A. Cat 5E
    B. Cat 6
    C. CAT 5
    D. CAT 6a

Continued...

13. VoIP is a phone service that _____
    A. is only available for calls within the United States.
    B. has extremely high quality but is very expensive.
    C. works over an Internet connection.
    D. requires a fiber-optic connection.

14. Which is **NOT** a factor that determines the quality of images taken with a digital camera?
    A. Resolution
    B. File format
    C. Lens quality
    D. Type of battery

15. "Illegally break into systems to flaunt their expertise or to attempt to sell their services in repairing security breaches."
    These statement above refers to _____
    A. white-hat hackers.
    B. black-hat hackers.
    C. grey-hat backers.
    D. red-hat hackers.

16. Which is the best password for the personal account?
    A. Myyukicat
    B. Abc1234
    C. Sys90871234!
    D. hammer

17. The process of running the program over and over to find and repair errors and to make sure the program behaves in the way is referring to _____
    A. testing
    B. analysis
    C. compile
    D. debugging

18. Which is **NOT** an advantage of Java?
    A. Java needs to compile only once prior to distribution.
    B. Java supports network communications
    C. Java performs faster than C++
    D. Java is an architecture neutral

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19. All the database statements below are true **EXCEPT**
    A. Allow users to extract subsets of data from the databases
    B. Output the data in a meaningful and presentable format
    C. Populate the database by creating records
    D. Expensive to set up and administer

20. Two lists showing the same data about the same person is an example of

    _____

    A. data inconsistency
    B. data redundancy
    C. data irregularity
    D. data disparity

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SECTION B: 3 STRUCTURED QUESTIONS (30 MARKS)

Instruction: *Answer **ALL** the questions in this section and write your answers in the answer booklet provided.*

QUESTION 1 (10 Marks)

a) Define the difference between Application Software and System Software. (2 Marks)

b) Describe any **THREE (3)** example Productivity software. (3 Marks)

c) The OS provides a user interface that lets you interact with the computer. List out **THREE (3)** types of interfaces. (3 Marks)

d) Briefly explain on advantages File Compression Utilities. (2 Marks)

QUESTION 2 (10 Marks)

a) Briefly explain *Machine Cycle* (5 Marks)

b) Describe the below network architecture: (3 Marks)

i. Personal Area Network (PAN)
ii. Local Area Network (LAN)
iii. Wide Area Network (WAN)

c) Differentiate between router and switch in home network environments. (2 Marks)

QUESTION 3 (10 Marks)

a) Describe Short message service (SMS) and its characteristics. (2 Marks)

b) List **THREE (3)** similarity features between smartphone and tablets. (3 Marks)

c) Describe how denial-of-service (DOS) attack be done. (3 Marks)

d) Firewalls are designed to restrict access to a network and its computers. Describe **TWO (2)** ways how firewall protection function. (2 Marks)

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